

APEX workshop 2013

Date/time: 9am **Dec. 19** – 5:30pm **Dec. 20**

Venue: Seminar Room at Science Center(Bldg 438)

Organizer:

- AEAC: M. Bai, I. Ben-Zvi , M. Blaskiewicz , A. Fedotov , W. Fischer, H. Huang, M. Minty V. Litvinenko, D. Lowenstein , P. Pile, T. Roser
- Run coordinator: G. Robert-Demolaize, J. Kewisch

Agenda

Opening session: 9am—10am, Dec. 19

Session chair: Roser

- Welcome: Thomas 5 min
- “RHIC performance and motivation”: W. Fischer 20+5 min
- Instrumentation Update for RUN 14: D. Gassner 15+5
- APEX status/plan/policy: M. Bai 5+5 min

Studies with major commissioning: 10:15am—12:15pm, Dec. 19

Session chair: Roser

- Bunch by bunch transverse damper commissioning and beam studies: K. Mernick, 20+5
- Elens electron beam commissioning: X. Gu, 20+5
- CeC PoP status and possible beam studies: V. Litvinenko, 20+5
- eRHIC possible beam studies: V. Ptitsyn, 20+5
- 56MHz Commissioning and possible beam studies: Sergy Belomestnykh, 15+5

Studies towards higher lumi: 1:30pm—3:35pm, Dec. 19

Session chair: Ptitsyn

- Impedance measurement of both rings: M. Blaskiewicz, 20+5
- Beam stability with electron lenses: S. White, 15+5
- Optimize off-momentum DA w. IBS lattice: Y. Jing, 15+5
- Dynamic beta-squeeze: G. Robert-Demolaize, 15+5
- Elens lattice and its evaluation: S. White/Y. Luo, 15+5
- Spin tracking of Elens lattice: V. Ranjbar, 15+5

Studies regarding pA operation: 3:45pm—5:35pm, Dec. 19

Session chair: Bai

- DX aperture scan: Y. Luo, 15+5
- Au beam stability at p injection energy: M. Blaskiewicz, 15+5

- He3-Au in RHIC and possible studies: S. Tepikian, 15+5
- He3 status of injector chain and possible studies: H. Huang, 15+5
- P-Pb at LHC, J. Jowett(CERN) 25+5

Studies regarding low energy operations: 9:00am—10:40am, Dec. 20

Session chair: Gardner

- Sqrt(s)=5GeV/n Au studies: C. Montag, 20+5
 - With preliminary simulation studies of DA for pp data as well as coming lattice
- Possible beam experiment to verify if shrinking hysteresis cycles that would work to demagnetize a room temperature magnet could be applied to mitigate sextupole fields caused by persistent currents in the RHIC dipole windings: P. Thieberger, 15+5
- Low energy e beam cooling related studies: A. Fedotov, 20+5
- space charge dominated Beam dynamics issues: G. Franchetti (GSI), 25+5

Activities of R&D: 11:00am—12:00pm

Session chair: Ilan

- Status of Gatling gun: J. Skaritka, 15+5
- Beam dynamics of Gatling gun: E. Wang, 15+5
- Status of ERL commissioning: D. Kayran, 15+5

Activities of R&D: 1:30pm—3:10pm

Session chair: Ilan

- Diagnostic for electron beam: P. Evtushenko(JLab), 20+5
- Status and Plan of ATF: I. Pogorelsky, 20+5
- Muon accelerator program: B. Palmer, 20+5
- LARP Crab cavity: Q. Wu, 20+5

Beam Instrumentation: 3:30pm—5:30pm, Dec. 20

Session chair: Minty

- E-Lens back-scattered electron detector: P. Thieberger, 15+5
- BPM performance for long bunch with low intensity: R. Hulsart, 10+5
- Tests with beam for new polarimeter target holder: J. Kewsich, 15+5
- AGS electron based IPM: R. Connolly, 15+5
- De-mystifying Vernier scans: A. Drees, 20+5
- Ramp Optice measurement and correction: C. Liu, 15+5

Closeout